

NON-VOLANT SMALL MAMMAL DIVERSITY AND
COMPOSITION AT THREE POINT AREA OF
UNIVERSITY WILLIAMS TERREBACAU, KINSHASA

MARIE PARMENTIER MOND MUSIR

DAVID GOMIS DIAKHY PHYSIOLOGIST
UNIVERSITY WILLIAMS TERREBACAU

2003

clv 6034

1100057915

Perpustakaan Sultanah Nur Zahirah (UMT)
Universiti Malaysia Terengganu



LP 42 FST 2 2008



1100057915

Non-volant small mammals diversity and composition at mangrove area of Universiti Malaysia Terengganu (UMT) / Nurul Farhanah Mohd Nasir.

PERPUSTAKAAN SULTANAH NUR ZAHIRAH
UNIVERSITI MALAYSIA TERENGGANU (UMT)
21030 KUALA TERENGGANU

1100057915

Lihat sebelah



**NON-VOLANT SMALL MAMMALS' DIVERSITY AND
COMPOSITION AT MANGROVE AREA OF
UNIVERSITY MALAYSIA TERENGGANU
(UMT)**

By
Nurul Farhanah Binti Mohd Nasir

A thesis submitted in partial fulfillment of
The requirements for the award if the degree of
Bachelor of Applied Science (Biodiversity Conservation and Management)

**DEPARTMENT OF BIOLOGICAL SCIENCES
FACULTY OF SCIENCE AND TECHNOLOGY
UNIVERSITY MALAYSIA TERENGGANU**
2008

1100057915

This project should be cited as:

Nurul Farhanah, M. N. 2008. Non-Volant Small Mammals' Diversity and Composition at Mangrove Area of University Malaysia Terengganu (UMT). Undergraduate thesis, Bachelor of Applied Science (Biodiversity Conservation and Management), Faculty of Science and Technology, Universiti Malaysia Terengganu. 39p.

No part of this project report may be produced by any mechanical, photographic or electronic process, or in the form of phonographic recording, nor it may be stored in a retrieval system, transmitted, or otherwise copied for public or private use, without written permission from the author and supervisor(s) of the project.



JABATAN SAINS BIOLOGI
FAKULTI SAINS DAN TEKNOLOGI
UNIVERSITI MALAYSIA TERENGGANU

PENGAKUAN DAN PENGESAHAN LAPORAN PITA I DAN II

Adalah ini diakui dan disahkan bahawa laporan penyelidikan bertajuk: NON-VOLANT SMALL MAMMALS' DIVERSITY AND COMPOSITION AT MANGROVE AREA OF UNIVERSITY MALAYSIA TERENGGANU (UMT) oleh NURUL FARHANAH BINTI MOHD NASIR, No matrik : UK 12415 telah diperiksa dan semua pembetulan yang disarankan telah dilakukan. Laporan ini dikemukakan kepada Jabatan Sains Biologi sebagai memenuhi sebahagian daripada keperluan memperoleh ijazah SARJANA MUDA SAINS GUNAAN (PEMULIHARAAN DAN PENGURUSAN BIODIVERSITI), Fakulti Sains dan Teknologi, UMT.

Disahkan oleh

.....

Penyelia Utama

FAZILAH BINTI ARIFFIN

Nama: Pensyarah
Cop Rasmi: Jabatan Sains Biologi
Fakulti Sains dan Teknologi
Universiti Malaysia Terengganu
21030 Kuala Terengganu

Tarikh: 21/7/08

Penyelia Bersama

NOR ZALIPAH BINTI MOHAMED

Nama: Pensyarah
Cop Rasmi: Jabatan Sains Biologi
Fakulti Sains dan Teknologi
Universiti Malaysia Terengganu
21030 Kuala Terengganu

Tarikh: 8/5/08

Ketua Jabatan Sains Biologi

PROF. MADYA DR. AZIZ BIN AHMAD

Nama: Ketua
Cop Rasmi: Jabatan Sains Biologi
Fakulti Sains dan Teknologi
Universiti Malaysia Terengganu
21030 Kuala Terengganu

15 JUN 2008

Tarikh:

DECLARATION

I hereby declare that thesis entitled NON-VOLANT SMALL MAMMALS' DIVERSITY AND COMPOSITION AT MANGROVE AREA OF UNIVERSITY MALAYSIA TERENGGANU (UMT) is the result of my own research except as cited in the references.

Signature : 
Name : Nurul Farhanah Bt Mohd Nasir
Matrix No : UK 12415
Date : 12 April 2008

ACKNOWLEDGEMENT

I would like to thank you to my supervisor, Mr. Wong Chee Ho and my co-supervisor, Miss Nor Zalipah Mohamed for all support and effort in assisting me to complete this project. The guidance and advice which all of you gave to me really helped me to complete this project.

Not forgotten to convey my appreciation to Mr. Haji Muhammad Embong, who helped me during setting trap and sampling. Also for my partner, Nur Ain, Hairol, and Aishah whose lending their hands to complete this project, I would like to thank you and these memories were taught me to be more independent and confidence.

Your support and help will always be remembered. Amin...

ABSTRACT

The study of non-volant small mammal was carried out at mangrove area of Universiti Malaysia Terengganu (UMT). The objectives of this study were to determine the diversity and composition of non-volant small mammal and to update the checklist of non-volant small mammal at the area. This study was conducted from August 2007 to January 2008. 30 traps were deployed in five lines of six traps along 30m transect with 5m intervals between traps. A total of 20 individuals from 3 species and 2 families were caught throughout this study. Two species caught were belongs to the Family Muridae and a species belongs to the Family Viverridae. From the 20 individuals captured, 19 individuals or 95% belongs to Family Muridae and one or 5% were from the Family Viverridae. The species caught were *Rattus tiomanicus*, *Rattus rattus* and *Paradoxurus hermaphroditus*. From the total capture, *Rattus tiomanicus* is the most dominant species in mangrove area representing 95% of total individual followed by *Rattus rattus* and *Paradoxurus hermaphroditus* with 2.5% respectively. Ecological factors such weather and flood, and also human activities at the mangrove area were among the factors that known to influence the diversity and composition of non-volant small mammals. From this study also, one additional species which is *Rattus rattus* were recorded present at mangrove area of Universiti Malaysia Terengganu.

**KEPELBAGAIAN DAN KOMPOSISI MAMALIA KECIL TIDAK TERBANG
(NON-VOLAN) DI KAWASAN BAKAU UNIVERSITI MALAYSIA
TERENGGANU**

ABSTRAK

Kajian mamalia kecil tidak terbang telah dijalankan di kawasan bakau di Universiti Malaysia Terengganu (UMT). Objektif kajian ini adalah untuk mengenal pasti kepelbagaian dan komposisi mamalia kecil tidak terbang serta menambah senarai mamalia kecil di kawasan bakau UMT. Kajian ini telah dijalankan dari bulan Ogos 2007 hingga Januari 2008. Satu transek sepanjang 30m disediakan. Perangkap diletakkan 5m antara setiap satu di sepanjang transek tersebut. Sejumlah 20 individu daripada 3 spesies telah diperolehi. 2 spesies yang diperolehi terdiri daripada Famili Muridae dan 1 lagi spesies terdiri daripada Famili Viverridae. Daripada 20 individu tangkapan, 19 individu atau 95% terdiri daripada Famili Muridae dan 5% atau satu individu daripada Famili Viverridae. Spesies yang ditangkap ialah *Rattus tiomanicus* (95%), *Rattus rattus* (2.5%) dan *Paradoxurus hermaphroditus* (2.5%). Spesies yang dominan di kawasan bakau ini adalah *Rattus tiomanicus*. Faktor ekologi seperti cuaca dan banjir, di samping aktiviti manusia di kawasan bakau diantara faktor yang mempengaruhi kepelbagaian dan komposisi mamalia kecil tidak terbang. Daripada kajian ini, satu spesies telah berjaya direkodkan di kawasan bakau UMT iaitu *Rattus rattus*.